

EOS-840 Sensor T AS321x

T A G E O S

Datasheet



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Superior RAIN RFID compatible temperature sensing solution



The EOS-840 Sensor T inlay provides a versatile, temperature sensing solution for a wide range of applications and use-cases in industrial, supply chain, and retail environments.

with a dipole antenna, enabling read ranges of up to 7 meters for Tageos' sensor inlay. Any required calibration data is stored inside user memory, while equations to get the physical data are provided in application notes. Equipped with an optional operational mode, all AS321x ICs can return their UID for inventory management purposes.

A wide sensing range, comprehensive compatibility with existing RAIN RFID readers even without firmware updates, and hassle-free on-chip calibration ensure superior usability and trouble-free deployment. Typical application areas for EOS-840 Sensor T comprise cold-chain management, grocery and agriculture warehousing, industrial and pharmaceutical quality control and manufacturing, and predictive maintenance, to name a few.

Available in dry and plastic-face delivery format, EOS-840 Sensor T complies with global frequency standards.

The sensor inlay is based on the AS3211 IC from Asygn, which is a member of the Asygn AS321x Chip Platform. Like all platform members, the IC has a sensitivity in sensing mode which is up to -12dBm

Like all Tageos' RFID products, it complies with ISO 9001:2015 Quality Management System and ISO 14001:2015 Environmental Management System, as well as Environmental Directives RoHS and REACH, utilizing sustainable materials such as FSC® certified paper whenever possible.

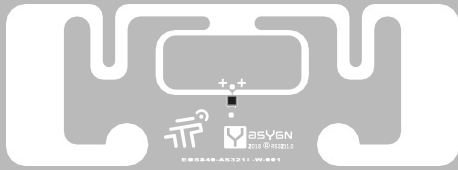
Overview

IC:	AS3211
EPC/User	192 bit / 96 bit
Memory: TID	96 bit incl. 48 bit unique S/N
Memory:	860 - 960 MHz
Frequency Band:	EPC Class 1 Gen
Protocol:	2 ISO 18000-6c

Application Areas

- Cold Chain Management
- Item Level Tagging
- Supply Chain Management
- Temperature Sensing





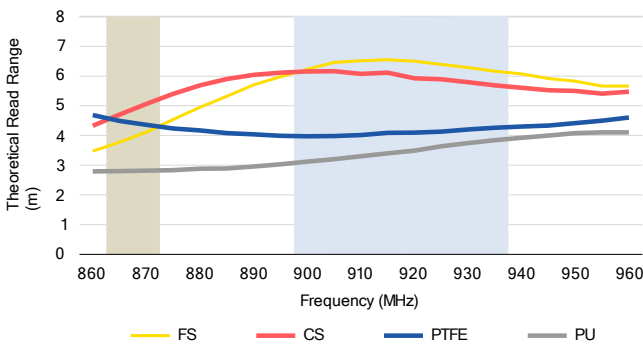
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Technical Overview

	Dry Inlay	Plastic-face Inlay
Product Code	8400000001	8400000002
Antenna Size	70 x 25 mm 2.76 x 0.98 in	70 x 25 mm 2.76 x 0.98 in
Finish Size	-	74 x 28 mm 2.91 x 1.10 in
Web Width	80 ± 1 mm 3.15 ± 0.04 in	80 ± 1 mm 3.15 ± 0.04 in
Pitch	32.54 ± 0.2 mm 1.28 x 0.01 in	32.54 ± 0.2 mm 1.28 x 0.01 in
Antenna Material	Aluminium	Aluminium
Front Face	-	White PP
Inlay Substrate	Clear PET	Clear PET
Inlay Adhesive	-	Permanent
Liner	-	Paper
Operating Temperature	-40°C / +125°C -40°F / +257°F	-40°C / +125°C -40°F / +257°F
Final Inspection	100% tested	100% tested
ARC Approvals	-	-

Read Range



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Graphs: All the graphs are indicative: performance in real life applications may vary. The data has been determined based on calculations for transmitters with a normal output power level and respective IC silicon. **Storage & handling precautions:** Observe standard storage and handling practices to minimize Electro Static Discharge. Tageos reserves the right to change its products and services at any time without notice. As our products are used in circumstances beyond our control, we cannot be held liable for any damages caused through their use. This is a general purpose product not designed or intended for any specific application.

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